

Set	Items	Description
S1	174	(TOLERIZ? OR TOLERANCE OR TOLERANT) (S) (FETAL (3N) THYMUS)
S2	0	S1 (S) (VECTOR? OR RETROVIR? OR ADENOVIR? OR PLASMID?)
S3	369	(TOLERIZ? OR TOLERANCE OR TOLERANT) (S) FETAL (S) (THYMUS - OR THYMOCYTE?)
S4	8	S3 (S) (PLASMID? OR VECTOR? OR RETROVIR? OR ADENOVIR?)
S5	2	RD (unique items)
S6	29	(RECOMBINANT OR TRANSDUC? OR TRANSFECT?) (3N) (FETAL (2N) (THYMOCYTE? OR T OR LYMPHOCYTE?))
S7	7	S6 (S) THYMUS
S8	2	RD (unique items)
S9	33	FETAL (W) T (W) LYMPHOCYTE?
S10	0	S9 (5N) (TRANSFECT? OR TRANSDUC? OR PLASMID? OR VECTOR? OR RETROVIR? OR ADENOVIR?)
S11	32	S9 NOT PY>1999
S12	11	RD (unique items)
S13	145	INTRATHYMIC (S) (RETROVIR? OR PLASMID? OR VECTOR? OR ADENO- VIR?)
S14	30	S13 (S) (TOLERANCE OR TOLERIZ? OR TOLERANT)
S15	10	RD (unique items)
?s (fetal (3n) thymocyte?) (s) (thymus) (s) (retrovir? or adenovir? or plasmid? or vect or?)		
	621200	FETAL
	83714	THYMOCYTE?
	198787	THYMUS
	316308	RETROVIR?
	125485	ADENOVIR?
	340447	PLASMID?
	544996	VECTOR?
S16	2	(FETAL (3N) THYMOCYTE?) (S) (THYMUS) (S) (RETROVIR? OR ADENOVIR? OR PLASMID? OR VECTOR?)
?rd		
...completed examining records		
S17	1	RD (unique items)

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Human umbilical cord blood (UCB) hematopoietic stem cells (HSC) receive increased attention as a possible target for gene-transfer in gene therapy trials. Diseases affecting the lymphoid lineage, as adenosine deaminase (ADA) deficiency and acquired immunodeficiency syndrome (AIDS) could be cured by gene therapy. However, the T-cell progenitor potential of these HSC after gene-transfer is largely unknown and was up to now not testable in vitro. We show here that highly purified CD34sup +sup + Lineage marker-negative (CD34sup +sup +Linsup -) UCB cells generate T, natural killer (NK), and dendritic cells in severe combined immunodeficient mouse fetal thymus organ culture (FTOC). CD34sup +sup +Linsup - and CD34sup +sup +CD38sup -Linsup - UCB cells express the **retroviral** encoded marker gene Green Fluorescent Protein (GFP) after in vitro transduction with MFG-GFP **retroviral** supernatant. Transduced cells were still capable of generating T, NK, and dendritic cells in the FTOC , all expressing high levels of GFP under control of the Moloney murine leukemia virus (MoMuLV) long terminal repeat promotor. We thus present an in vitro assay for thymic T-cell development out of transduced UCB HSC, using GFP as a marker gene.

?S11	770	FTOC OR (FETAL(W) THYMUS(W) ORGAN(W) CULTURE?)
S12	54	S11 (S) (RETROVIR? OR ADENOVIR? OR PLASMID? OR VECTOR?)
S13	32	S12 NOT PY>1999
S14	27	S13 NOT (S10 OR S7)
S15	11	RD (unique items)